DUAL-MATIC

MODEL TF100

INSTRUCTION GUIDE

GENERAL DESCRIPTION

The DUAL-Matic Model TF100 Tester provides a convenient means of verifying system functions in accordance with the required manufacturer's specifications prior to patient therapy. The DUAL-Matic Tester may be used with CINCINNATI SUB ZERO MicroTemp 727, MicroTemp 737, MicroTemp 747, Electricool 757 and Electricool 767 systems or, by means of adapters, with other types of systems.

DUAL-MATIC TESTS / OBJECTIVES

1. Flow rate – To verify the unit's water flow is within machine specifications.

   Low flow will result in reduced thermal transfer. Possible sources of defects for low flow include: pump, pump impeller housing, water lines or quick disconnect fitting. Do not use on machines with water pressure over 15 PSI.

2. Water Temperature Accuracy – the thermometer well, when filled with water, will act as a coupling medium between the thermometer well water and the machine's system water for the temperature sensing device. This will enable an accurate measurement of the water temperature as it comes from the unit being tested. This test insures the water temperature matches the displayed temperature on the unit being tested.

REQUIRED EQUIPMENT

Mercury (glass) thermometer, 400 series thermistor probe, digital thermometer, or thermocouple Accuracy of any of the aforementioned should be equal to or less than ±1°F over the operational range of the unit being tested.

DUAL MATIC TEST SET UP

1. Place Dual-Matic on a level surface or mount on IV pole by using CSZ Cat. No. UMC1.
2. Fill thermometer well with water to provide "coupling" medium for water temperature test. Do not overfill.
3. Insert thermometer or probe of choice into thermometer well.
4. Connect water hoses in series with the unit to be tested.
5. Verify Flow Rate and Water Temperature of the unit.

Refer to the manufacturer's technical manual for test procedure details and performance specifications. Modifications to the procedure may be necessary for other types of equipment. Perform all verification tests in ambient temperatures of 71°F – 75°F.

For technical assistance contact CINCINNATI SUB ZERO Products, Inc. Medical Division Technical Services at:

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DUAL-MATIC TESTER STORAGE

1. Drain water from the thermometer will by turning the Dual-Matic tester upside down.
2. Remove the hose assemblies and drain water from the internal components by turning the Dual-Matic Tester on its side (barbed fitting facing down).
3. Wipe all water off the exterior of the Dual-Matic Tester.
4. Place hose assembly in a dry and convenient storage place.

CINCINNATI SUB ZERO Product, Inc. reserves the right to make equipment changes and improvement which may not be reflected in this operation instruction guide.